Matériaux & Techniques

Call for papers

Themed Issue on

Indentation: Experimental techniques and multiscale modelling

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Background

The symposium "Indentation 2018" from Groupe Indentation Multi-Echelle (GIME) is addressed to academics and industrials concerned with mechanical characterisation issues with instrumented indentation at different scales.
In general, this conference aims to better understand the indentation, but also to share this great tool for characterizing between the scientific and industrial communities.



Aim and Scope of the Themed Issue

The purpose of the themed issue: "Indentation: Experimental techniques and multiscale modelling" is to provide the possibility for research outputs about indentation to be published at the intersection of experiments and simulation.

The issue will specifically target the recent developments in indentation in terms of experiments and simulation results, the extent of the derived properties and indentation applications (fracture, mechanics, constitutive laws, plasticity, fatigue, creep …). This will be done by sweeping examples of studies on heterogeneous materials, porous ceramics, coated materials or materials with gradient properties.

The issue will publish work covering all research areas including, but not limited to:

- Fundamentals aspects of indentation and derived properties

- Polymers, bio-materials and biological materials

- Metals and crystal plasticity

- Heterogeneous materials (concrete, composite materials, materials with gradient properties …)

- Thin films, coatings, multilayer, …

- Simulation and modelling

- Extreme conditions: AFM contact, in situ nanoindentation, in temperature, with humidity …

- Industrial applications
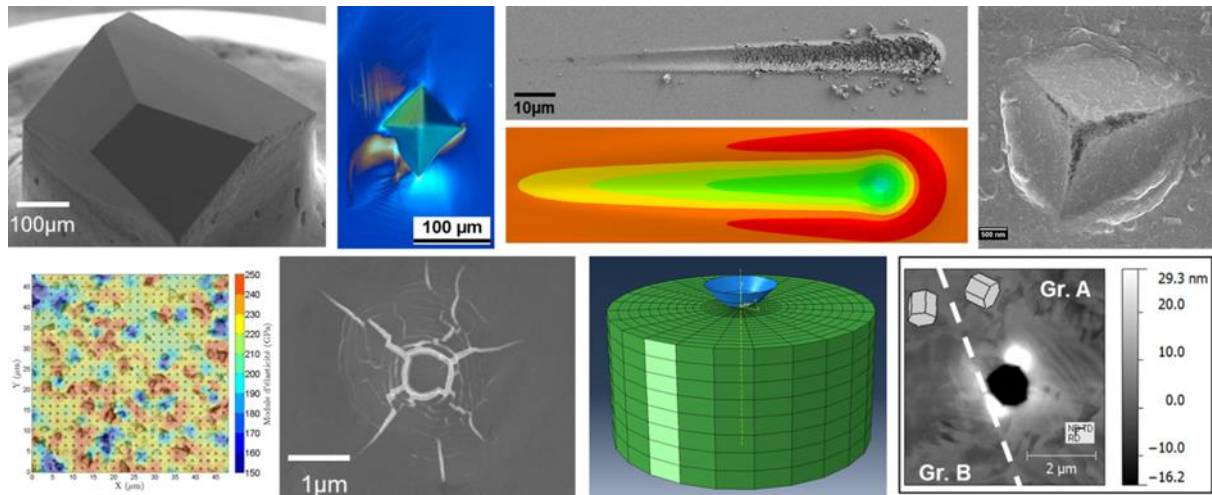
Submissions

All relevant papers will be carefully considered, vetted by a distinguished team of international experts, and published in accordance to the Journal's standard policies. Full research papers and review articles can be submitted online via the journal's submission and peer review site. Please register choosing the title of the special issue *'Indentation: Experimental techniques and multiscale modelling'*.

Please find the instructions for authors at: **https://www.mattech-journal.org/author-information/instructions-for-authors**

Submission deadline – 30th November 2018

Article submission and editorial system **here**.

Information: articles having the corresponding author from the French institutions belonging to the list of the National Agreement members, can be published (after acceptance) in Open Access without any charge.

Matériaux & Techniques

Journal of industrial materials, their implementation techniques and use

Over more than a century, *Matériaux & Techniques* has accompanied the evolution of the science & technology of materials.

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